

Tuesday, July 27, 1999

Columbia launches on third attempt, releases Chandra X-ray Observatory



Courses offered by UCF, FSI for Fall 1999 term



▲ **STS-93 Mission Update:** The third try was a charm for the launch of Space Shuttle Columbia, its five astronaut crew and the Chandra X-ray Observatory. After two scrubs, the STS-93 mission got off to a roaring start at 12:31 a.m. on Friday. The Chandra payload was deployed about 7 hours after liftoff, its inertial upper stage motor fired about an hour later and then

its solar arrays deployed. Chandra is being moved closer to its operating orbit through a series of five firings of its liquid apogee engines. Columbia is scheduled to land at 11:20 p.m. Tuesday.

◆ UCF will offer Graduate Engineering and Undergraduate Engineering Technology taped courses through the Florida Engineering Education Delivery System (FEEDS) at Cape Canaveral Air Station (CCAS) for the Fall 1999 semester. Fall term begins Aug. 19 through Dec. 4. Classes will be held in room 123, Building AM (north entrance), located on the west side of Hangar Road at CCAS. Courses in FEEDS can lead to master's degrees in civil, environmental, computer, electrical, industrial, engineering management, mechanical and aerospace disciplines. Undergraduate courses can apply towards a bachelor's degree in the field of engineering technology. **Early registration is continuing for all UCF courses through July 30. For registration hours and further information, please contact Cassie Spears at 730-2603.** FEEDS course listings can also be obtained through the Florida Space Institute Web site: <http://fsi.ucf.edu/>

◆ Florida Space Institute's (FSI) Educational Division is sponsoring courses at KSC and Cape Canaveral Air Station (CCAS) for the Fall 1999 term. A graduate course offered in **Spacecraft Design** is open to students of all engineering disciplines. The undergraduate course selection includes **Satellite Communications, Satellite Payloads, Introduction Space System Technology, Applied Boundary Value Problems I, and Space Science & Technology** scheduled to be taught by **former astronaut Dr. Sam Durrance**. Some courses may apply to two new programs sponsored by FSI: A Master of Science in Aerospace Engineering (MSAE) and an Undergraduate Space Studies Minor from the University of Central Florida's Mechanical, Materials and Aerospace Engineering department. FSI's Educational Division is comprised of colleges and universities that offer "practice-based" courses to students. Current schools participating include Brevard Community College, Broward Community College, Embry Riddle Aeronautical University, Florida Tech and the University of Central Florida. For further information, please contact Cassie Spears, Academic Coordinator at 730-2603. Class listings can be obtained through the FSI website: <http://fsi.ucf.edu/>

◆ **Did You Know?** The Federal Emergency Management Agency (FEMA) is supporting efforts led by the President's Council on Year 2000 Conversion. The FEMA Y2K/Year 2000 Issues site at <http://www.fema.gov/y2k/> highlights emergency services, consumer issues, frequently asked questions and even a Y2K For Kids section. There is also a new toll-free information line, 1-888-USA-4-Y2K, that provides information about the Year 2000 issue for consumers.

KSC Countdown is published every Tuesday & Thursday.

Deadlines: 10 a.m. the day before. Send information, comments or questions to:

E-mail – Anita.Barrett-1@ksc.nasa.gov ◆ Mail Code – IDI-011 ◆ Telephone – 867-2815

Countdown on the Internet -- <http://www-pao.ksc.nasa.gov/kscpao/ksccount/1999/1999.htm>